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 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

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18 and 14 and 11

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USPT	18 and 14 and 11	39	<u>L13</u>
USPT	18 and 14 and 110	740	<u>L12</u>
USPT	110 and 17	29	<u>L11</u>
USPT	infect\$5 or anti\$10	252616	<u>L10</u>
USPT	18 and 17	11	<u>L9</u>
USPT	salmonella or campylobacter or clostridium	10217	<u>L8</u>
USPT	11 and 13 and 14 and 15	42	<u>L7</u>
USPT	11 and 12 and 13 and 14 and 15	0	<u>L6</u>
USPT	soybean\$5 or rapeseed\$6 or canola\$5 or fishmeal\$5 or meatmeal\$5	31465	<u>L5</u>
USPT	animal feed\$5	7119	<u>L4</u>
USPT	wheat\$5	35290	<u>L3</u>
USPT	antibacteria\$5	18943	<u>L2</u>
USPT	\$5glucanase or xylanase	1277	<u>L1</u>

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NEWS 1 Feb 2 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Dec 17 Expanded CAPlus Coverage of US, Japanese, WIPO,  
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NEWS 3 Feb 1 Addition of Machine-Translated Abstracts to CAPlus  
NEWS 4 Feb 28 Patent Information Now Searchable in CAOLD  
SDI/UPDATE SEARCH FIELD  
NEWS 5 May 1 Beilstein Abstracts on STN - FILE BABS  
NEWS 6 May 1 RN CROSSOVER AND ANSWER SIZE LIMITS INCREASED  
NEWS 7 May 1 AIDSLINE has been reloaded  
NEWS 8 May 1 Searching Y2-K compliant Patent Numbers  
NEWS 9 May 9 Sequence Similarity Batch Search in DGENE  
NEWS 10 May 19 Weekly Statistics for New Entries now available  
in INPADOC  
NEWS 11 May 22 CITED REFERENCES NOW AVAILABLE IN CAPLUS AND CA FILE  
NEWS 12 May 22 POSTPROCESSING OF SEARCH RESULTS MAY BE AFFECTED  
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REGISTRY, CASREACT, MARPAT, and MARPATPREV  
NEWS 13 Jun 2 KOREAN PATENTS NOW IN CAS DATABASES  
NEWS 14 Jun 20 WIPO/PCT Patents Fulltext Database now on STN  
NEWS 15 Jun 28 NEWS 15 Jun 28 CAS covers Web-distributed preprints  
  
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FILE 'HOME' ENTERED AT 11:26:06 ON 06 JUL 2000

=> index bioscience, chemistry

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

FILE 'PAPERCHEM' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.15	0.15

FULL ESTIMATED COST

INDEX 'ADISALERTS, ADISINSIGHT, AGRICOLA, AIDSLINE, ANABSTR, AQUASCI,

BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO,  
CABA,  
CANCERLIT, CAPLUS, CEABA, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU,  
DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 11:26:29 ON 06  
JUL 2000

79 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view  
search error messages that display as 0\* with SET DETAIL OFF.

=> s ?glucanase or xylanase

1\* FILE ADISALERTS  
0\* FILE ADISINSIGHT  
1118\* FILE AGRICOLA  
6 FILE AIDSLINE  
39\* FILE ANABSTR  
5 FILES SEARCHED...  
47\* FILE AQUASCI  
495\* FILE BIOBUSINESS  
39\* FILE BIOCOMMERCE  
4283 FILE BIOSIS  
962\* FILE BIOTECHABS  
962\* FILE BIOTECHDS  
1414 FILE BIOTECHNO  
1455\* FILE CABA  
37 FILE CANCERLIT  
5983 FILE CAPLUS  
365\* FILE CEABA  
16 FILES SEARCHED...  
0\* FILE CEN  
12 FILE CIN  
56\* FILE CONFSCI  
38\* FILE CROPB  
165\* FILE CROPU  
22\* FILE DDFB  
14\* FILE DDFU  
1096\* FILE DGENE  
22\* FILE DRUGB  
0\* FILE DRUGLAUNCH  
0\* FILE DRUGMONOG2  
0\* FILE DRUGNL  
25\* FILE DRUGU  
4\* FILE EMBAL  
30 FILES SEARCHED...  
1449 FILE EMBASE  
618\* FILE ESBIODBASE  
0\* FILE FOMAD  
61\* FILE FOREGE  
34 FILES SEARCHED...  
240\* FILE FROSTI  
838\* FILE FSTA  
1129 FILE GENBANK  
3\* FILE HEALSAFE  
164\* FILE IFIPAT  
387\* FILE JICST-EPLUS  
2\* FILE KOSMET  
1122\* FILE LIFESCI  
1547 FILE MEDLINE  
2\* FILE NIOSHTIC  
44 FILES SEARCHED...  
24\* FILE NTIS  
22\* FILE OCEAN  
24\* FILE PROMT  
3273 FILE SCISEARCH

253 FILE TOXONE  
 760 FILE TOXALIT  
 940 FILE USPATFULL  
 555 FILE WPIDS  
 555 FILE WPINDEX  
 1\* FILE ALUMINIUM  
 1\* FILE APILIT  
 1\* FILE APILIT2  
 123\* FILE BABS  
 22 FILE CAOLD  
 6\* FILE CBNB  
 0\* FILE CERAB  
 139\* FILE COMPENDEX  
 2\* FILE INSPEC  
 1\* FILE INSPHYS  
 2\* FILE INVESTEXT  
 0\* FILE IPA  
 9\* FILE KKF  
 0\* FILE METADEX  
 17 FILE NAPRALERT  
 210\* FILE PAPERCHEM2  
 3\* FILE RAPRA  
 73 FILES SEARCHED...  
 3\* FILE RUSSCI  
 1\* FILE TULSA  
 0\* FILE TULSA2  
 9\* FILE VTB  
 3\* FILE WSCA

65 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L1 QUE ?GLUCANASE OR XYLANSE

=> s antibacteria?

16236 FILE ADISALERTS  
 597 FILE ADISINSIGHT  
 2999 FILE AGRICOLA  
 190 FILE AIDSLINE  
 153 FILE ANABSTR  
 571 FILE AQUASCI  
 7597 FILE BIOBUSINESS  
 131 FILE BIOCOMMERCE  
 108315 FILE BIOSIS  
 952 FILE BIOTECHABS  
 952 FILE BIOTECHDS  
 3109 FILE BIOTECHNO  
 6956 FILE CABA  
 1436 FILE CANCERLIT  
 46007 FILE CAPLUS  
 449 FILE CEABA  
 91 FILE CEN  
 701 FILE CIN  
 580 FILE CONFSCI  
 37 FILE CROPB  
 299 FILE CROPU  
 1453 FILE DDFB  
 7842 FILE DDFU  
 14883 FILE DGENE  
 1453 FILE DRUGB  
 595 FILE DRUGLAUNCH  
 10 FILE DRUGMONOG2  
 196 FILE DRUGNL  
 9506 FILE DRUGU  
 29 FILES SEARCHED...  
 130 FILE EMBAL

21766 FILE EM...E  
 2288 FILE ESTROBASE  
 1 FILE FOMAD  
 1114 FILE FROSTI  
 1108 FILE FSTA  
 297 FILE GENBANK  
 135 FILE HEALSAFE  
 6346 FILE IFIPAT  
 23389 FILE JICST-EPLUS  
 102 FILE KOSMET  
 12710 FILE LIFESCI  
 15810 FILE MEDLINE  
 194 FILE NIOSHTIC  
 335 FILE NTIS  
 279 FILE OCEAN  
 758 FILE PHAR  
 8 FILE PHIC  
 2755 FILE PHIN  
 5687 FILE PROMT  
 12805 FILE SCISEARCH  
 9231 FILE TOXLINE  
 11441 FILE TOXLIT  
 18680 FILE USPATFULL  
 22065 FILE WPIDS  
 22065 FILE WPINDEX  
 6 FILE ALUMINIUM  
 20 FILE APILIT  
 20 FILE APILIT2  
 2289 FILE BABS  
 2026 FILE CAOLD  
 1063 FILE CBNB  
 62 FILES SEARCHED...  
 5 FILE CERAB  
 323 FILE COMPENDEX  
 44 FILE INSPEC  
 16 FILE INSPHYS  
 4389 FILE INVESTEXT  
 3050 FILE IPA  
 59 FILE KKF  
 24 FILE METADEX  
 6710 FILE NAPRALERT  
 66 FILE PAPERCHEM2  
 230 FILE RAPRA  
 23 FILE RUSSCI  
 6 FILE TULSA  
 2 FILE TULSA2  
 412 FILE USAN  
 6 FILE VTB  
 214 FILE WSCA

78 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L2 QUE ANTIBACTERIA?

=> s animal feed?

3 FILE ADISALERTS  
 3019 FILE AGRICOLA  
 10 FILE AIDSLINE  
 394 FILE ANABSTR  
 306 FILE AQUASCI  
 3381 FILE BIOBUSINESS  
 334 FILE BIOCOMMERCE  
 7166 FILE BIOSIS  
 915 FILE BIOTECHABS  
 915 FILE BIOTECHDS

248 FILE BILCHNO  
6437 FILE CABR  
358 FILE CANCERLIT  
4999 FILE CAPLUS  
502 FILE CEABA  
16 FILES SEARCHED...  
95 FILE CEN  
1074 FILE CIN  
70 FILE CONFSCI  
18 FILE CROPB  
76 FILE CROPU  
67 FILE DDFB  
28 FILE DDFU  
2688 FILE DGENE  
67 FILE DRUGB  
32 FILE DRUGU  
7 FILE EMBAL  
768 FILE EMBASE  
266 FILE ESBIODBASE  
298 FILE FOMAD  
3 FILE FOREGE  
1853 FILE FROSTI  
35 FILES SEARCHED...  
1691 FILE FSTA  
12 FILE GENBANK  
87 FILE HEALSAFE  
2253 FILE IFIPAT  
117 FILE JICST-EPLUS  
6 FILE KOSMET  
518 FILE LIFESCI  
19473 FILE MEDLINE  
174 FILE NIOSHTIC  
632 FILE NTIS  
71 FILE OCEAN  
25 FILE PHIC  
2631 FILE PHIN  
7525 FILE PROMT  
1599 FILE SCISEARCH  
18162 FILE TOXLINE  
52 FILES SEARCHED...  
950 FILE TOXLIT  
6756 FILE USPATFULL  
7872 FILE WPIDS  
7872 FILE WPINDEX  
56 FILES SEARCHED...  
173 FILE APILIT  
173 FILE APILIT2  
12 FILE BABS  
345 FILE CAOLD  
2366 FILE CBNB  
2 FILE CERAB  
453 FILE COMPENDEX  
67 FILE INSPEC  
1 FILE INSPHYS  
8263 FILE INVESTEXT  
55 FILE IPA  
9 FILE METADEX  
9 FILE NAPRALERT  
211 FILE PAPERCHEM2  
48 FILE RAPRA  
73 FILES SEARCHED...  
5 FILE RUSSCI  
2 FILE TULSA  
56 FILE VTB  
6 FILE WSCA

L3 QUE ANIMAL FEED?

=&gt; s wheat?

45	FILE ADISALERTS
71177	FILE AGRICOLA
42	FILE AIDSLINE
1248	FILE ANABSTR
696	FILE AQUASCI
22009	FILE BIOBUSINESS
464	FILE BIOCOMMERCE
97293	FILE BIOSIS
3660	FILE BIOTECHABS
3660	FILE BIOTECHDS
7640	FILE BIOTECHNO
139182	FILE CABA
1940	FILE CANCERLIT
77051	FILE CAPLUS
1160	FILE CEABA
112	FILE CEN
1099	FILE CIN
2900	FILE CONFSCI
11382	FILE CROPB
17709	FILE CROPU
488	FILE DDFB
265	FILE DDFU
3879	FILE DGENE
488	FILE DRUGB
109	FILE DRUGLAUNCH
76	FILE DRUGMONOG2
27 FILES SEARCHED...	
7	FILE DRUGNL
470	FILE DRUGU
102	FILE EMBAL
13337	FILE EMBASE
10232	FILE ESBIODBASE
1862	FILE FOMAD
531	FILE FOREGE
11318	FILE FROSTI
23733	FILE FSTA
4067	FILE GENBANK
346	FILE HEALSAFE
4301	FILE IFIPAT
6665	FILE JICST-EPLUS
94	FILE KOSMET
14576	FILE LIFESCI
17594	FILE MEDLINE
405	FILE NIOSHTIC
4033	FILE NTIS
127	FILE OCEAN
3	FILE PHAR
41	FILE PHIC
5648	FILE PHIN
35734	FILE PROMT
57680	FILE SCISEARCH
11499	FILE TOXLINE
17340	FILE TOXLIT
29356	FILE USPATFULL
15541	FILE WPIDS
55 FILES SEARCHED...	
15541	FILE WPINDEX
22	FILE ALUMINIUM
57 FILES SEARCHED...	
336	FILE APILIT

336 FILE A IT2  
547 FILE BABS  
7010 FILE CAOLD  
1808 FILE CBNB  
7 FILE CERAB  
3624 FILE COMPENDEX  
1582 FILE INSPEC  
65 FILES SEARCHED...  
177 FILE INSPHYS  
41113 FILE INVESTEXT  
89 FILE IPA  
81 FILE KKF  
60 FILE METADEX  
252 FILE NAPRALERT  
1553 FILE PAPERCHEM2  
151 FILE RAPRA  
193 FILE RUSSCI  
93 FILE TULSA  
48 FILE TULSA2  
2 FILE USAN  
53 FILE VTB  
51 FILE WSCA

78 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L4 QUE WHEAT?

=> s 11 and 12 and 13 and 14

0\* FILE ADISALERTS  
0\* FILE ADISINSIGHT  
0\* FILE AGRICOLA  
0\* FILE ANABSTR  
0\* FILE AQUASCI  
0\* FILE BIOBUSINESS  
0\* FILE BIOCOMMERCE  
0\* FILE BIOTECHABS  
0\* FILE BIOTECHDS  
0\* FILE CABA  
0\* FILE CEABA  
0\* FILE CEN  
0\* FILE CONFSCI  
0\* FILE CROPB  
0\* FILE CROPU  
0\* FILE DDFB  
22 FILES SEARCHED...  
0\* FILE DDFU  
0\* FILE DGENE  
0\* FILE DRUGB  
0\* FILE DRUGLAUNCH  
0\* FILE DRUGMONOG2  
0\* FILE DRUGNL  
0\* FILE DRUGU  
0\* FILE EMBAL  
0\* FILE ESBIOBASE  
0\* FILE FOMAD  
0\* FILE FOREGE  
0\* FILE FROSTI  
0\* FILE FSTA  
0\* FILE HEALSAFE  
0\* FILE IFIPAT  
0\* FILE JICST-EPLUS  
0\* FILE KOSMET  
0\* FILE LIFESCI  
0\* FILE NIOSHTIC  
0\* FILE NTIS



45 FILES SEARCHED.

0\* FILE OCLAN  
0\* FILE PROMT

56 FILES SEARCHED...

0\* FILE ALUMINIUM  
0\* FILE APILIT  
0\* FILE APILIT2  
0\* FILE BABS  
0\* FILE CBNB  
0\* FILE CERAB  
0\* FILE COMPENDEX  
0\* FILE INSPEC  
0\* FILE INSPHYS  
0\* FILE INVESTEXT  
0\* FILE IPA  
0\* FILE KKF  
0\* FILE METADEX  
0\* FILE PAPERCHEM2  
0\* FILE RAPRA  
0\* FILE RUSSCI  
0\* FILE TULSA  
0\* FILE TULSA2  
0\* FILE VTB

78 FILES SEARCHED...

0\* FILE WSCA

0 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L5 QUE L1 AND L2 AND L3 AND L4

=> s l1 and l3 and l4

0\* FILE ADISALERTS  
0\* FILE ADISINSIGHT  
0\* FILE AGRICOLA  
0\* FILE ANABSTR  
0\* FILE AQUASCI  
1\* FILE BIOBUSINESS  
0\* FILE BIOCOMMERCE  
6 FILE BIOSIS  
3\* FILE BIOTECHABS  
3\* FILE BIOTECHDS  
0\* FILE CABA  
9 FILE CAPLUS  
0\* FILE CEABA  
0\* FILE CEN  
0\* FILE CONFSCI  
0\* FILE CROPB

20 FILES SEARCHED...

0\* FILE CROPU  
0\* FILE DDFB  
0\* FILE DDFU  
6\* FILE DGENE  
0\* FILE DRUGB  
0\* FILE DRUGLAUNCH  
0\* FILE DRUGMONOG2  
0\* FILE DRUGNL  
0\* FILE DRUGU  
0\* FILE EMBAL  
0\* FILE ESBIODBASE  
0\* FILE FOMAD  
0\* FILE FOREGE  
0\* FILE FROSTI  
1\* FILE FSTA  
0\* FILE HEALSAFE  
5\* FILE IFIPAT

0\* FILE J...-EPLUS  
0\* FILE K...MET  
0\* FILE LIFESCI  
4 FILE MEDLINE  
0\* FILE NIOSHTIC  
1\* FILE NTIS

45 FILES SEARCHED...

0\* FILE OCEAN  
0\* FILE PROMT  
2 FILE SCISEARCH  
2 FILE TOXLINE  
72 FILE USPATFULL  
2 FILE WPIDS  
2 FILE WPINDEX

56 FILES SEARCHED...

0\* FILE ALUMINIUM  
0\* FILE APILIT  
0\* FILE APILIT2  
0\* FILE BABS  
0\* FILE CBNB  
0\* FILE CERAB  
0\* FILE COMPENDEX  
0\* FILE INSPEC  
0\* FILE INSPHYS  
0\* FILE INVESTEXT  
0\* FILE IPA  
0\* FILE KKF  
0\* FILE METADEX  
0\* FILE PAPERCHEM2  
0\* FILE RAPRA  
0\* FILE RUSSCI  
0\* FILE TULSA  
0\* FILE TULSA2

76 FILES SEARCHED...

0\* FILE VTB  
0\* FILE WSCA

15 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L6 QUE L1 AND L3 AND L4

=> s soybean? or rapeseed? or canola? or fishmeal? or meatmeal?

83 FILE ADISALERTS  
7 FILE ADISINSIGHT  
40963 FILE AGRICOLA  
21 FILE AIDSLINE  
497 FILE ANABSTR  
1271 FILE AQUASCI  
16426 FILE BIOBUSINESS  
479 FILE BIOCOMMERCE  
58797 FILE BIOSIS  
4963 FILE BIOTECHABS  
4963 FILE BIOTECHDS  
4697 FILE BIOTECHNO  
37116 FILE CABA  
1102 FILE CANCERLIT  
75309 FILE CAPLUS  
611 FILE CEABA  
203 FILE CEN  
3161 FILE CIN  
2440 FILE CONFSCI  
4686 FILE CROPB  
11175 FILE CROPU  
413 FILE DDFB  
769 FILE DDFU

5,817,500 5,612,055

4408 FILE D...  
 24 FILES SEARCHED...  
 413 FILE DRUGB  
 20 FILE DRUGLAUNCH  
 3 FILE DRUGNL  
 1070 FILE DRUGU  
 85 FILE EMBAL  
 10656 FILE EMBASE  
 5738 FILE ESBIODASE  
 747 FILE FOMAD  
 82 FILE FOREGE  
 5871 FILE FROSTI  
 17234 FILE FSTA  
 93532 FILE GENBANK  
 189 FILE HEALSAFE  
 4776 FILE IFIPAT  
 8946 FILE JICST-EPLUS  
 65 FILE KOSMET  
 7818 FILE LIFESCI  
 14442 FILE MEDLINE  
 185 FILE NIOSHTIC  
 2468 FILE NTIS  
 319 FILE OCEAN  
 10 FILE PHAR  
 34 FILE PHIC  
 3026 FILE PHIN

49 FILES SEARCHED...  
 17852 FILE PROMT  
 36289 FILE SCISEARCH  
 8753 FILE TOXLINE  
 12537 FILE TOXLIT  
 31353 FILE USPATFULL  
 12561 FILE WPIDS  
 12561 FILE WPINDEX  
 8 FILE ALUMINIUM  
 782 FILE APILIT  
 782 FILE APILIT2  
 714 FILE BABS  
 3668 FILE CAOLD  
 1526 FILE CBNB  
 2775 FILE COMPENDEX  
 344 FILE INSPEC  
 81 FILE INSPHYS  
 15704 FILE INVESTEXT  
 482 FILE IPA  
 68 FILE KKF  
 14 FILE METADEX  
 375 FILE NAPRALERT  
 281 FILE PAPERCHEM2  
 255 FILE RAPRA  
 14 FILE RUSSCI  
 7 FILE TULSA  
 1 FILE TULSA2  
 4 FILE USAN

77 FILES SEARCHED...  
 22 FILE VTB  
 178 FILE WSCA

77 FILES HAVE ONE OR MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L7 QUE SOYBEAN? OR RAPESEED? OR CANOLA? OR FISHMEAL? OR MEATMEAL?

=> s 16 and 17

0\* FILE ADISALERTS  
 0\* FILE ADISINSIGHT

0\* FILE AMCOLA  
0\* FILE AMSTR  
0\* FILE AQUASCI  
0\* FILE BIOBUSINESS  
0\* FILE BIOCOMMERCE  
0\* FILE BIOTECHABS  
0\* FILE BIOTECHDS  
0\* FILE CABA  
4 FILE CAPLUS  
15 FILES SEARCHED...  
0\* FILE CEABA  
0\* FILE CEN  
0\* FILE CONFSCI  
0\* FILE CROPB  
0\* FILE CROPU  
0\* FILE DDFB  
0\* FILE DDFU  
0\* FILE DGENE  
0\* FILE DRUGB  
0\* FILE DRUGLAUNCH  
0\* FILE DRUGMONOG2  
0\* FILE DRUGNL  
0\* FILE DRUGU  
0\* FILE EMBAL  
0\* FILE ESBIODASE  
0\* FILE FOMAD  
0\* FILE FOREGE  
0\* FILE FROSTI  
0\* FILE FSTA  
36 FILES SEARCHED...  
0\* FILE HEALSAFE  
1\* FILE IFIPAT  
0\* FILE JICST-EPLUS  
0\* FILE KOSMET  
0\* FILE LIFESCI  
0\* FILE NIOSHTIC  
1\* FILE NTIS  
0\* FILE OCEAN  
0\* FILE PROMT  
26 FILE USPATFULL  
54 FILES SEARCHED...  
1 FILE WPIDS  
1 FILE WPINDEX  
56 FILES SEARCHED...  
0\* FILE ALUMINIUM  
0\* FILE APILIT  
0\* FILE APILIT2  
0\* FILE BABS  
0\* FILE CBNB  
0\* FILE CERAB  
0\* FILE COMPENDEX  
0\* FILE INSPEC  
0\* FILE INSPHYS  
0\* FILE INVESTEXT  
0\* FILE IPA  
0\* FILE KKF  
0\* FILE METADEX  
0\* FILE PAPERCHEM2  
0\* FILE RAPRA  
0\* FILE RUSSCI  
0\* FILE TULSA  
75 FILES SEARCHED...  
0\* FILE TULSA2  
0\* FILE VTB  
0\* FILE WSCA

6 FILES HAVE ONE MORE ANSWERS, 79 FILES SEARCHED IN STNINDEX

L8 QUE L6 AND L7

=> d rank

F1	26	USPATFULL
F2	4	CAPLUS
F3	1	WPIDS
F4	1	WPINDEX
F5	1*	IFIPAT
F6	1*	NTIS

=> file f1-f6

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.15	12.30

FILE 'USPATFULL' ENTERED AT 11:42:40 ON 06 JUL 2000  
CA INDEXING COPYRIGHT (C) 2000 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAPLUS' ENTERED AT 11:42:40 ON 06 JUL 2000  
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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

FILE 'IFIPAT' ENTERED AT 11:42:40 ON 06 JUL 2000  
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FILE 'NTIS' ENTERED AT 11:42:40 ON 06 JUL 2000  
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=> s 18

3 FILES SEARCHED...  
LEFT TRUNCATION IGNORED FOR '?GLUCANASE' FOR FILE 'IFIPAT'  
LEFT TRUNCATION IGNORED FOR '?GLUCANASE' FOR FILE 'NTIS'  
L9 33 L8  
Left truncation is not valid in the specified search field in the  
specified file. The term has been searched without left truncation.  
Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID'  
would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you  
used a truncation symbol after a punctuation mark, the system may  
interpret the truncation symbol as being at the beginning of a term.  
Implied proximity is used in search fields indexed as single words,  
for example, the Basic Index.

=> dup rem 19

PROCESSING COMPLETED FOR L9  
L10 32 DUP REM L9 (1 DUPLICATE REMOVED)

=> d 1-32 ab,bib

L10 ANSWER 1 OF 32 US PATFULL

AB Plants are provided with improved resistance against pathogenic fungi. They are genetically transformed with one or more polynucleotides which essentially comprise one or more genes encoding plant and .beta.-1,3-glucanases. Preferred are the intracellular forms of the said

hydrolytic enzymes, especially preferred are those forms which are targeted to the apoplastic space of the plant by virtue of the modification of the genes encoding the said enzymes. Particularly preferred are plants exhibiting a relative overexpression of at least one gene encoding a .beta.-1,3-glucanase.

AN 2000:64717 US PATFULL

TI Process for obtaining fungal resistant plants with recombinant polynucleotides encoding .beta.-1,3-glucanase modified for apoplast targeting

IN Cornelissen, Bernardus Johannes Clemens, Warmond, Netherlands

Melchers, Leo Sjoerd, Leiden, Netherlands

PA Zeneca Mogen B.V., Netherlands (non-U.S. corporation)

PI US 6066491 20000523

AI US 1994-229050 19940418 (8)

RLI Continuation of Ser. No. US 1991-647831, filed on 29 Jan 1991, now abandoned

PRAI NL 1990-222 19900130

DT Utility

EXNAM Primary Examiner: Nelson, Amy J.

LREP Ladas & Parry

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN 14 Drawing Figure(s); 11 Drawing Page(s)

LN.CNT 2300

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 32 US PATFULL

AB This invention describes the germination technology for cereal and oil seeds for the production of enzymes and also describes the production technology of various high activity enzyme products such as phytase

from the germinated seeds. The invention provides the use of germinated seeds

after crushing (or pulverizing) as economically viable raw materials

for mixed feeds and also provides the use of the enzyme products as filler materials for various pharmaceuticals for livestock. The production of enzyme products from seeds are achieved through four steps including selection of seeds, germination, culturing and drying, crushing and packaging.

AN 2000:61248 US PATFULL

TI Production of enzyme products and raw feed materials using grain seeds

IN Bae, Hee Dong, 144-5, Ji-dong, Suwon-City, Kyungki-do, Korea, Republic of

Cheng, Kuo-Joan, 2015-6 Avenue South, Lethbridge, Alberta, Canada T1J 1C2

PI US 6063431 20000516

AI US 1997-889029 19970707 (8)

PRAI KR 1997-1499 19970120

DT Utility

EXNAM Primary Examiner: Sayala, Chhaya D.

LREP Darby & Darby

CLMN Number of Claims: 6

ECL Exemplary Claim: 1

DRWN 2 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 400

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 32 US PATFULL

AB The present invention relates to isolated polypeptides having phytase

activity, the corresponding cloned DNA sequence a process for preparing such polypeptides, and the use thereof for a number of industrial applications. In particular, the invention relates to phytases derived from the phylum Basidiomycota, phytases of certain consensus sequences and fungal 6-phytases.

AN 2000:34189 USPATFULL  
TI Phytase polypeptides  
IN Lassen, Soren Flensted, Copenhagen, Denmark  
Bech, Lisbeth, Hillerod, Denmark  
Ohmann, Anders, Bronshoj, Denmark  
Breinholt, Jens, Bagsvaerd, Denmark  
Fuglsang, Claus Crone, Niva, Denmark  
Ostergaard, Peter Rahbek, Virum, Denmark  
PA Novo Nordick A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
PI US 6039942 20000321  
AI US 1997-993359 19971218 (8)  
PRAI DK 1996-1480 19961220  
DK 1996-1481 19961220  
DK 1997-301 19970318  
DK 1997-529 19970507  
DK 1997-1388 19971201  
US 1997-46082 19970509 (60)  
US 1997-67304 19971204 (60)  
DT Utility  
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Saidha, Tekchand  
LREP Zelson, Esq., Steve T.; Green, Esq., Reza  
CLMN Number of Claims: 15  
ECL Exemplary Claim: 1  
DRWN 38 Drawing Figure(s); 38 Drawing Page(s)  
LN.CNT 4185  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 32 USPATFULL

AB The present invention relates to a method for improving the solubility of vegetable proteins. More specifically, the invention relates to methods for the solubilization of proteins in vegetable protein sources, which methods comprise treating the vegetable protein source with an efficient amount of one or more phytase enzymes, and treating the vegetable protein source with an efficient amount of one or more proteolytic enzymes. In another aspect, the invention provides **animal feed** additives comprising a phytase and one or more proteolytic enzymes.

AN 1999:150703 USPATFULL  
TI Method for improving the solubility of vegetable proteins  
IN Nielsen, Per Munk, Bagsv.ae butted.rd, Denmark  
Knap, Inge Helmer, Bagsv.ae butted.rd, Denmark  
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
PI US 5989600 19991123  
WO 9528850 19951102  
AI US 1996-716450 19960927 (8)  
WO 1995-DK166 19950420  
19960927 PCT 371 date  
19960927 PCT 102(e) date  
PRAI DK 1994-470 19940422  
DT Utility  
EXNAM Primary Examiner: Eisenschenk, Chris; Assistant Examiner: Zeman, Mary K  
LREP Zelson, Esq., Steve T.; Lambiris, Esq., Elias  
CLMN Number of Claims: 31  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 631  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 32 USPATFULL

AB A method of treating adverse behavior in animals, manifested in

secondary effects such as, in horses, excitability, difficult handling, coprophagy, wood chewing and grasping, or wind sucking, by controlling the formation and accumulation of acid in the hind gut (large intestine) of the gastrointestinal tract that results from the fermentation of excess carbohydrates in the hind gut. This is accomplished by ingesting certain antibiotics with or without combination thereof with certain enzymes. Of specific merit in this invention is the use of virginiamycin to control the passage of carbohydrates into the gastrointestinal tract and the fermentation of these carbohydrates therein. This controls, the accumulation of acid in the digestive tract.

AN 1999:146590 USPATFULL

TI Prevention of adverse behavior, diarrhea, skin disorders and infections of the hind gut associated with acidic conditions in humans and animals by the application of antibiotics

IN Rowe, James Baber, 411 Rockvale Road, Armidale, New South Wales 2350, Australia

PI US 5985891 19991116  
WO 9620709 19960711

AI US 1997-860562 19970829 (8)  
WO 1995-AU884 19951229  
19970829 PCT 371 date  
19970829 PCT 102(e) date

PRAI AU 1994-338 19941229

DT Utility

EXNAM Primary Examiner: Cook, Rebecca

LREP Lowe Hauptman Gopstein Gilman & Berner

CLMN Number of Claims: 23

ECL Exemplary Claim: 1

DRWN 6 Drawing Figure(s); 6 Drawing Page(s)

LN.CNT 1301

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 32 USPATFULL

AB This invention concerns methods for synthesis and accumulation of fructose polymers in seed, tubers or leaves of transgenic plants by selective expression of a bacterial fructosyltransferase gene.

Selective expression includes coordination of timing, tissue specific expression and especially subcellular location. Successful transformants utilize sucrose to synthesize and accumulate fructan in the vacuole of the cell,

in established crops, without loss of co-products or concern for yield loss due to degradation during maturation, harvest or storage of the plant. Enhanced fructan production will benefit the fructose sweetener industry and add value to grain used for feed.

AN 1999:63448 USPATFULL

TI Accumulation of fructans in plants by targeted expression of bacterial levansucrase

IN Caimi, Perry Gerard, Landenberg, PA, United States  
Hershey, Howard Paul, West Chester, PA, United States  
Kerr, Phillip S., Urbandale, IA, United States

PA E. I. du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation)

PI US 5908975 19990601  
WO 9513389 19950518

AI US 1996-640732 19960506 (8)  
WO 1994-US12778 19941107  
19960506 PCT 371 date  
19960506 PCT 102(e) date

RLI Continuation-in-part of Ser. No. US 1993-149689, filed on 9 Nov 1993, now abandoned

DT Utility

EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Nelson, Amy J.



CLMN Number of Claims 11  
ECL Exemplary Claim 1  
DRWN No Drawings  
LN.CNT 3534  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 32 USPATFULL

AB A purified xylanase produced by *Acidothermus cellulolyticus* is disclosed  
having a pH optimum of between about 3.6-4.2 and a molecular weight of between about 50-55 kD as determined by gel filtration. The disclosed xylanase is useful in the bleaching of pulp for the production of paper and in treating feed compositions.

AN 1999:56256 USPATFULL  
TI Xylanase from *acidothermus cellulolyticus*  
IN Clarkson, Kathleen A., San Francisco, CA, United States  
Morgan, Andrew J., Marlborough, United Kingdom  
Wang, Zhi C., San Francisco, CA, United States  
PA Genencor International, Inc., Rochester, NY, United States (U.S. corporation)  
PI US 5902581 19990511  
AI US 1995-567382 19951204 (8)  
DT Utility  
EXNAM Primary Examiner: Weber, Jon P.; Assistant Examiner: Kerr, Janet M.  
LREP Anderson, Kirsten A. Genencor International, Inc.  
CLMN Number of Claims: 3  
ECL Exemplary Claim: 1  
DRWN 4 Drawing Figure(s); 2 Drawing Page(s)  
LN.CNT 659  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 32 USPATFULL

AB The invention provides a purified phytate enzyme derived from *Escherichia coli* B. The enzyme has a molecular weight of about 47.1 kilodaltons and has phytase activity (SEQ ID NO:2). The enzyme can be produced from native or recombinant host cells and can be used to aid in  
the digestion of phytate where desired. In particular, the phytase of the present invention can be used in **animal feed**.

AN 1999:27459 USPATFULL  
TI Phytase  
IN Kretz, Keith, San Marcos, CA, United States  
PA Diversa Corporation, San Diego, CA, United States (U.S. corporation)  
PI US 5876997 19990302  
AI US 1997-910798 19970813 (8)  
DT Utility  
EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Tung, Peter P.  
LREP Fish & Richardson P.C.  
CLMN Number of Claims: 9  
ECL Exemplary Claim: 2  
DRWN 4 Drawing Figure(s); 3 Drawing Page(s)  
LN.CNT 1172  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 32 USPATFULL

AB The present invention relates to a process for reducing the viscosity of  
a plant material, which process comprises treating the plant material with a xylanase having i) a WSPS per mg protein added which is higher than 0,06, and/or ii) a WSPU per mg protein added which is higher than 15, and/or iii) a specific activity of more than 0,053 FVRU/mg protein. Further, the invention relates to use of a xylanase preparation for separating a plant material, such as **wheat**, into separate useful components as well as processes for such viscosity reduction or separation.

AN 1999:24495 USPATFULL

TI Processing plant material with xylanase  
IN Jakobsen, Tina; Sjersgaard, Copenhagen, Denmark  
Heldt-Hansen, Hans Peter, Virum, Denmark  
Kofod, Lene Venke, Uggerløse, Denmark  
Bagger, Christian Lorentz, Frederiksberg, Denmark  
Mullertz, Anette, Charlottenlund, Denmark  
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
PI US 5874274 19990223  
WO 9523514 19950908  
AI US 1996-700546 19960923 (8)  
WO 1995-DK82 19950224  
19960923 PCT 371 date  
19960923 PCT 102(e) date  
PRAI DK 1994-247 19940502  
DT Utility  
EXNAM Primary Examiner: Prats, Francisco  
LREP Zelson, Esq., Steve T.; Gregg, Esq., Valeta  
CLMN Number of Claims: 11  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Figure(s); 3 Drawing Page(s)  
LN.CNT 963  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 32 USPTFULL

AB The present invention relates to a composition capable of reducing or eliminating offensive odors emanating from sites including, animal holding areas, animal waste areas, feed lots, water holding areas, landfills, trash transfer centers and leachate reservoirs. The composition comprises an acid component, or salt thereof, an iron component and a nitrogen source. The invention also relates to a method of odor reduction or elimination based on the above-described composition. Furthermore, the composition utilized in the disclosed methods includes a polysaccharide hydrolase component, and at least one molybdenum, copper and/or gum component.

AN 1999:15473 USPTFULL

TI Methods of odor treatment

IN Jones, Craig, Juno Beach, FL, United States

Bitz, D. Michael, Miami, FL, United States

PA E.K.M.A., Inc., Miami, FL, United States (U.S. corporation)

PI US 5866112 19990202

AI US 1995-476374 19950607 (8)

RLI Continuation-in-part of Ser. No. US 1995-376553, filed on 20 Jan 1995

DT Utility

EXNAM Primary Examiner: Naff, David M.; Assistant Examiner: Ware, Deborah K.

LREP Nixon & Vanderhye P.C.

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN 3 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 413

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2000 ACS

AB The present invention relates to novel microorganism, *Penicillium funiculosum*, to new enzymes mixt. obtained from it, and nucleic sequences

thereto. Xylanase,  $\beta$ -glucanase, feruloyl esterase and other enzymic activities are purified from *P. funiculosum* and characterized, and nucleic acid sequences encoding xylanase C, xylanase BI, feruloyl esterase A, and feruloyl esterase B are provided. The enzyme

mixt. can be provided in liq. and powder compns. for use in **animal feed** for the redn. of phosphorus and ammonia excretion, as well as for improved digestibility of cereals and amino acids.

AN 1999:723223 CAPLUS

DN 131:348532

TI Enzyme mixture from *Penicillium funiculosum*

IN Sabatier, Alain; [REDACTED], Neville Marshall; Haigh, Ni [REDACTED] Paterson  
PA Rhone-Poulenc Animal Nutrition S.A., Fr.; Rhodia Chemie  
SO PCT Int. Appl., 68 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9957325	A2	19991111	WO 1999-IB856	19990506
	W:	AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	EP 976838	A1	20000202	EP 1998-401101	19980506
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	AU 9935306	A1	19991123	AU 1999-35306	19990506
	EP 1007743	A2	20000614	EP 1999-917026	19990506
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRAI	EP 1998-401101		19980506		
	WO 1999-IB856		19990506		

L10 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2000 ACS

AB Provided is the use of a xylanase or a cellulase for the manuf. of an agent for the treatment and/or prophylaxis of bacterial infection in an animal caused by Salmonella, Campylobacter or Clostridium perfringens.

It is preferred that xylanase is used in combination with **wheat** to form an **animal feed**. Such a diet is particularly effective in controlling Campylobacter and Salmonella in chickens. The use provided by the present invention affords an alternative to antibiotics when controlling bacterial infection in animals. This leads to considerable health, environmental and economic benefits.

AN 1999:81590 CAPLUS

DN 130:152885

TI Use of an enzyme for the manufacture of an agent for controlling bacterial

infection

IN Bedford, Michael R.; Fernandez, Fresie

PA Finnfeeds International Ltd., UK

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9903497	A1	19990128	WO 1998-EP4440	19980716
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	GB 2327345	A1	19990127	GB 1997-15214	19970718
	GB 2327345	B2	19990623		
	AU 9888623	A1	19990210	AU 1998-88623	19980716
	EP 999851	A1	20000517	EP 1998-940239	19980716
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

IE, SI, LV, FI, RO  
PRAI GB 1997-15214 19970718  
WO 1998-EP4440 19980716  
RE.CNT 6

RE

- (1) Biofeed Thailand Co Ltd; WO 9729645 A 1997
  - (2) Kohjin Co Ltd; JP 09084529 A 1997
  - (3) Kuznetsova, T; Fermentn Spirt Prom-ST 1985, V6, P38
  - (4) Kuznetsova, T; Lysis of microorganism by enzyme preparations and their components 1986, 9, P329 CAPLUS
  - (5) Mann Stephen Philip; WO 9313786 A 1993
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 32 USPATFULL

AB Xylanases having high specific activities from Orpinomyces sp. strain PC-2 are provided as well as methods for their purification. DNA sequences encoding these proteins are also provided.

AN 1998:128125 USPATFULL

TI Orpinomyces xylanase proteins and coding sequences

IN Li, Xin-Liang, Athens, GA, United States  
Ljungdahl, Lars G., Athens, GA, United States  
Chen, Huizhong, Athens, GA, United States

PA University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)

PI US 5824533 19981020

AI US 1995-445090 19950519 (8)

DT Utility

EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Mytelka, Daniel S.

LREP Greenlee, Winner and Sullivan, P.C.

CLMN Number of Claims: 32

ECL Exemplary Claim: 1

DRWN 8 Drawing Figure(s); 7 Drawing Page(s)

LN.CNT 1418

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 32 USPATFULL

AB The present invention relates to **animal feed** additives, which additives comprise a monocomponent xylanase derived from a strain of Byssoschlamus, Chaetomium, Humicola, Malbranchea, Mucor, Myceliophthora, Paecilomyces, Talaromyces, Thermoascus, or Thielavia.

In other aspects, the invention relates to monocomponent xylanase preparations, DNA constructs, recombinant expression vectors, host cells, and methods of producing monocomponent xylanase preparations.

AN 1998:122255 USPATFULL

TI **Animal feed** additives

IN Hansen, Peter Kamp, Bagsvaerd, Denmark  
Wagner, Peter, Bagsvaerd, Denmark  
Mullertz, Anette, Bagsvaerd, Denmark  
Knap, Inge Helmer, Bagsvaerd, Denmark

PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

PI US 5817500 19981006

AI US 1997-886765 19970701 (8)

PRAI DK 1995-94 19950126

DT Utility

EXNAM Primary Examiner: Wax, Robert A.; Assistant Examiner: Hobbs, Lisa J.

LREP Zelson, Esq., Steve T.; Gregg, Esq., Valeta A.

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN 7 Drawing Figure(s); 7 Drawing Page(s)

LN.CNT 1610

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 32 USPATFULL

AB Fibrolytic enzyme supplements for increasing the digestibility of legume

forages and grain feeds for ruminants, a method of treating legume forages and grain feeds with fibrolytic enzymes, and feed compositions consisting of feed materials treated with a mixture of fibrolytic enzymes are provided. The enzyme supplements do not pre-digest the feed material but assist in the colonization of feed particles in the rumen by ruminal microbes. The fibrolytic enzyme supplements consist of mixtures of cellulase and xylanase in certain preferred ratios and levels which are dependent on the feed material to be treated. The cellulase and xylanase are dissolved in a buffer solution and sprayed onto dry legume forages or grain feeds. The feed material is then incubated for at least three hours to allow the enzymes to be absorbed into and adhere to the feed material. The resulting feed compositions remain stable for at least one year against predigestion. When

cellulase

and xylanase are applied to legume forages and grain feeds in certain ratios, levels and in accordance with the methods of the present invention, synergistic effects between the enzymes occur, providing large improvements in digestibility of feed materials at low enzyme levels.

AN 1998:19455 USPATFULL

TI Enzyme additives for ruminant feeds

IN Beauchemin, Karen A., Lethbridge, Canada

Rode, Lyle, Lethbridge, Canada

Sewalt, Vincent J., Ardmore, OK, United States

PA Her Majesty the Queen in right of Canada, as represented by the Department of Agriculture and Agri-Food Canada, Lacombe, Canada (non-U.S. government)

PI US 5720971 19980224

AI US 1995-497913 19950705 (8)

DT Utility

EXNAM Primary Examiner: Levy, Neil S.

LREP Greenlee, Winner and Sullivan, P.C.

CLMN Number of Claims: 21

ECL Exemplary Claim: 1

DRWN 6 Drawing Figure(s); 3 Drawing Page(s)

LN.CNT 1518

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 32 USPATFULL

AB A method of catalyzing in vitro reactions using seeds containing enhanced amounts of enzymes is disclosed. The method involves adding transgenic, non-wild type seeds, preferably in a ground form, to a reaction mixture and allowing the enzymes in the seeds to increase the rate of reaction. By directly adding the seeds to the reaction mixture the method provides a solution to the expensive and problematic process of extracting and purifying the enzyme. Methods of treatment are also provided whereby a subject lacking a sufficient supply of an enzyme is administered the enzyme in the form of seeds containing enhanced

amounts

of the enzyme.

AN 1998:12016 USPATFULL

TI Production of enzymes in seeds and their use

IN Van Ooijen, Albert J. J., Voorburg, Netherlands

Rietveld, Krijn, Vlaardingen, Netherlands

Hoekema, Andreas, Oegstgeest, Netherlands

Pen, Jan, Leiden, Netherlands

Sijmons, Peter Christian, Amsterdam, Netherlands

Verwoerd, Teunis Cornelis, Leiden, Netherlands

Quax, Wilhemus Johannes, Voorschoten, Netherlands

PA Mogen International, Netherlands (non-U.S. corporation)

PI US 5714474 19980203

AI US 1996-626554 19960402 (8)

RLI Division of Ser. No. US 1993-146422, filed on 2 Nov 1993, now patented, Pat. No. US 5543576 which is a continuation-in-part of Ser. No. US

1991-756994, filed on 11 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-498561, filed on 23 Mar 1990, now abandoned

PRAI EP 1991-200688 19910325  
DT Utility  
EXNAM Primary Examiner: Rories, Charles C. P.  
LREP Morrison & Foerster LLP  
CLMN Number of Claims: 10  
ECL Exemplary Claim: 1  
DRWN 24 Drawing Figure(s); 19 Drawing Page(s)  
LN.CNT 1822

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 17 OF 32 USPATFULL

AB The present invention provides plants with a modified taste, solids content and/or texture. The invention also provides methods of obtaining

such plants via transformation with DNA constructs containing genes encoding enzymes capable of degrading plant polysaccharides and optionally additional genes encoding enzymes which are capable of further modifying the degradation products resulting from the first degradation step.

AN 1998:1662 USPATFULL  
TI Transgenic plants having a modified carbohydrate content  
IN Van Ooyen, Albert Johannes Joseph, Voorburg, Netherlands  
Rietveld, Krijn, Vlaardingen, Netherlands  
Quax, Wilhelmus Johannes, Voorschoten, Netherlands  
Van Den Elzen, Petrus Josephus Maria, Voorhout, Netherlands  
Pen, Jan, Leiden, Netherlands  
Hoekema, Andreas, Oegstgeest, Netherlands  
Sijmons, Peter Christiaan, Amsterdam, Netherlands

PA MOGEN International, N.V., Netherlands (non-U.S. corporation)

PI US 5705375 19980106

AI US 1994-253575 19940603 (8)

RLI Continuation of Ser. No. US 1992-849422, filed on 12 Jun 1992, now abandoned

PRAI EP 1990-202438 19900913  
DT Utility  
EXNAM Primary Examiner: Rories, Charles C. P.  
LREP Morrison & Foerster LLP  
CLMN Number of Claims: 17  
ECL Exemplary Claim: 1  
DRWN 7 Drawing Figure(s); 7 Drawing Page(s)

LN.CNT 1235

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 18 OF 32 USPATFULL

DUPLICATE 1

AB The present invention provides a method of use, and a composition, of a carbohydrase and/or a protease for the manufacture of an agent for the treatment and/or prophylaxis of coccidiosis. The agent can be in the form of a cereal-based **animal feed**. The carbohydrase may be a polysaccharidase such as a xylanase or a cellulase e.g., .beta.-**glucanase**. The agent may include conventional non-enzymic anticoccidial agents.

AN 97:35943 USPATFULL

TI Method and composition for treatment and/or prophylaxis of coccidiosis

IN Bedford, Michael R., Marlborough, United Kingdom

Morgan, Andrew J., Marlborough, United Kingdom

Taylor, Michael A., Addlestone, United Kingdom

Catchpole, Janet, Addlestone, United Kingdom

PA Finnfeeds International Limited, Wiltshire, Great Britain (non-U.S. corporation)

Minister of Agriculture, Fisheries and Food, London, Great Britain (non-U.S. government)

PI US 5624678 19970429

AI US 1995-435946 19950510 (8)

PRAI GB 1994-9336 19940510  
DT Utility  
EXNAM Primary Examiner: Phelan, D. Gabrielle  
LREP Watson Cole Stevens Davis, P.L.L.C.  
CLMN Number of Claims: 31  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 551  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 19 OF 32 USPATFULL

AB Plants are provided with improved resistance against pathogenic fungi. They are genetically transformed with one or more polynucleotides which essentially comprise one or more genes encoding plant chitinases and .beta.-1,3-glucanases. Preferred are the intracellular forms of the said hydrolytic enzymes, especially preferred are those forms which are targeted to the apoplastic space of the plant by virtue of the modification of the genes encoding the said enzymes. Particularly preferred are plants exhibiting a relative overexpression of at least one gene encoding a chitinase and one gene encoding a .beta.-1,3-glucanase.

AN 97:86812 USPATFULL

TI Fungal resistant plants, process for obtaining fungal resistant plants and recombinant polynucleotides for use therein

IN Cornelissen, Bernardus J. C., Warmond, Netherlands  
Melchers, Leo Sjoerd, Leiden, Netherlands  
Meulenhoff, Elisabeth J. S., Amsterdam, Netherlands  
van Roekel, Jeroen S. C., Amsterdam, Netherlands  
Sela-Buurlage, Marianne Beatrix, Amersfoort, Netherlands  
Vloemans, Alexandra Aleida, Leiden, Netherlands  
Woloshuk, Charles Peter, Lafayette, IN, United States  
Bol, John Ferdinand, Oegstgeest, Netherlands  
Linthorst, Hubertus J. M., Leiden, Netherlands  
PA MOGEN International, n.v., Leiden, Netherlands (non-U.S. corporation)  
Rijksuniversiteit te Leiden, Leiden, Netherlands (non-U.S. corporation)  
PI US 5670706 19970923  
AI US 1993-47413 19930419 (8)  
RLI Division of Ser. No. US 1991-647831, filed on 29 Jan 1991, now abandoned

DT Utility  
EXNAM Primary Examiner: Chereskin, Che S.  
LREP Morrison & Foerster LLP  
CLMN Number of Claims: 30  
ECL Exemplary Claim: 1  
DRWN 16 Drawing Figure(s); 12 Drawing Page(s)  
LN.CNT 2336  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 20 OF 32 USPATFULL

AB The invention comprises two grain conditioners. The first grain conditioner, which is suitable for use on all grains, comprises a pectinase, a protease, a beta-glucanase and an amylase. The second grain conditioner, which is designed for use on easier-to-digest grains, comprises a pectinase, a beta-glucanase, an amylase and a hemicellulase. The invention also comprises animal feeds which comprise a grain which has been conditioned with one of the grain conditioners of the invention designed to be effective on that grain and methods of increasing the weight gain and feed utilization efficiency of an animal comprising feeding the novel animal feeds of the invention to the animal. The invention further comprises a method of conditioning a grain which comprises providing the grain, contacting the grain with one of the grain conditioners of the invention designed to be effective on that grain and incubating the grain and grain conditioner together for at least about 30 minutes. Finally, there is also provided another method

of conditioning grain comprising providing the grain, scarifying the grain, contacting the grain with one of the grain conditioners of the invention designed to be effective on that grain and incubating the grain and grain conditioner for at least about 30 minutes.

AN 97:78175 USPATFULL  
TI Enzymatic grain conditioner and methods of using it  
IN Tobey, Jr., James F., Roanoke, VA, United States  
McGee, J. Stanley, Longmont, CO, United States  
Cobb, Charles W., Hereford, TX, United States  
Cortner, William, Maysville, MO, United States  
PA Loveland Industries, Inc., Greeley, CO, United States (U.S. corporation)  
George A. Jeffreys & Co., Salem, VA, United States (U.S. corporation)  
Creative Research Laboratories, Inc., Wisner, NE, United States (U.S. corporation)  
PI US 5662901 19970902  
AI US 1994-294087 19940822 (8)  
RLI Division of Ser. No. US 1990-544022, filed on 26 Jun 1990 which is a continuation of Ser. No. US 1989-407726, filed on 14 Sep 1989, now abandoned which is a continuation of Ser. No. US 1987-76114, filed on 21 Jul 1987, now abandoned  
DT Utility  
EXNAM Primary Examiner: Lankford, Blaine  
LREP Burton, Carol W. Holland & Hart LLP  
CLMN Number of Claims: 20  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1219  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 21 OF 32 USPATFULL

AB An enzyme feed additive is provided comprising a xylanase, a protease, and optionally a .beta.-**glucanase**. The ratio of the units of xylanase activity per unit amount of the feed additive to the units of .beta.-**glucanase** activity per same unit amount of the feed additive is 1:0-0.25.

Preferably, the xylanase is the low pI xylanase and/or the high pI xylanase obtained from *Trichoderma longibrachiatum*.

Preferably, the protease is a mutant subtilisin comprising a substitution at the amino acid residue position equivalent to tyr+217

of

*Bacillus amyloliquefaciens* subtilisin with leucine.

AN 97:22502 USPATFULL  
TI Enzyme feed additive and **animal feed**  
IN Bedford, Michael R., Marlborough, United Kingdom  
Morgan, Andrew J., Marlborough, United Kingdom  
Clarkson, Kathleen, San Francisco, CA, United States  
Schulze, Hagen K., Marlborough, United Kingdom  
PA Genecor International, Inc., Rochester, NY, United States (U.S. corporation)  
Finnfeeds International Limited, United Kingdom (non-U.S. corporation)  
PI US 5612055 19970318  
AI US 1995-515610 19950816 (8)  
PRAI GB 1994-16841 19940819  
DT Utility  
EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Howard, Sharon  
CLMN Number of Claims: 28  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 905  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2000 ACS



AB The present invention relates to **animal feed additives** comprising galactosidase enzymes. More specifically, the invention relates to **animal feed additives** comprising an arabinogalactan endo-1,4-.beta.-galactosidase and/or an arabinogalactan endo-1,3-.beta.-galactosidase.

AN 1997:414188 CAPLUS

DN 127:33317

TI **Animal feed additives**

IN Knap, Inge Helmer; Kofod, Lene Venke; Ohmann, Anders

PA Novo Nordisk A/s, Den.; Knap, Inge, Helmer; Kofod, Lene, Venke; Ohmann, Anders

SO PCT Int. Appl., 20 pp.  
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9716982	A1	19970515	WO 1996-DK443	19961022
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2234607	AA	19970515	CA 1996-2234607	19961022
	AU 9672797	A1	19970529	AU 1996-72797	19961022
	AU 714602	B2	20000106		
	EP 862371	A1	19980909	EP 1996-934447	19961022
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	CN 1201373	A	19981209	CN 1996-198103	19961022
	BR 9611347	A	19990309	BR 1996-11347	19961022
	JP 11514528	T2	19991214	JP 1996-517759	19961022
PRAI	DK 1995-1233		19951106		
	WO 1996-DK443		19961022		

L10 ANSWER 23 OF 32 USPATFULL

AB A method of catalyzing in vitro reactions using seeds containing enhanced amounts of enzymes is disclosed. The method involves adding transgenic, non-wild type seeds, preferably in a ground form, to a reaction mixture and allowing the enzymes in the seeds to increase the rate of reaction. By directly adding the seeds to the reaction mixture the method provides a solution to the expensive and problematic process of extracting and purifying the enzyme. Methods of treatment are also provided whereby a subject lacking a sufficient supply of an enzyme is administered the enzyme in the form of seeds containing enhanced

amounts

of the enzyme.

AN 96:70613 USPATFULL

TI Production of enzymes in seeds and their use

IN van Ooijen, Albert J. J., Voorburg, Netherlands

Rietveld, Krijn, Vlaardingen, Netherlands

Hoekema, Andreas, Oegstgeest, Netherlands

Pen, Jan, Leiden, Netherlands

Sijmons, Peter C., Amsterdam, Netherlands

Verwoerd, Teunis C., Leiden, Netherlands

Quax, Wilhemus J., Voorschoten, Netherlands

PA Mogen International, Leiden, Netherlands (non-U.S. corporation)

Gist-Brocades, Delft, Netherlands (non-U.S. corporation)

PI US 5543576 19960806

AI US 1993-146422 19931102 (8)

RLI Continuation-in-part of Ser. No. US 1991-756994, filed on 11 Sep 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-498561, filed on 23 Mar 1990, now abandoned

PRAI EP 1991-200688 19910325  
DT Utility  
EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Rories, Charles  
LREP Morrison & Foerster LLP  
CLMN Number of Claims: 15  
ECL Exemplary Claim: 1  
DRWN 16 Drawing Figure(s); 19 Drawing Page(s)  
LN.CNT 1909  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2000 ACS

AB An enzyme feed additive is provided comprising a xylanase, a protease, and

optionally a .beta.-glucanase. The ratio of the units of xylanase activity per unit amt. of the feed additive to the units of .beta.-glucanase activity per same unit amt. of the feed additive is 1:0-0.25. Preferably, the xylanase is the low pI xylanase and/or the high pI xylanase obtained from Trichoderma longibrachiatum. Preferably, the protease is a mutant subtilisin comprising a substitution at the amino acid residue position equiv. to tyr+217 of Bacillus amyloliquefaciens subtilisin with leucine.

AN 1996:328577 CAPLUS

DN 125:9473

TI An enzyme feed additive and animal feed including it

IN Bedford, Michael Richard; Morgan, Andrew John; Clarkson, Kathleen; Schulze, Hagen Klaus

PA Finnfeeds International Limited, UK; Genencor International Inc.

SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9605739	A1	19960229	WO 1995-EP3277	19950817
	W: AU, CA, CN, FI, JP, NO, NZ				
	US 5612055	A	19970318	US 1995-515610	19950816
	CA 2196760	AA	19960229	CA 1995-2196760	19950817
	AU 9533944	A1	19960314	AU 1995-33944	19950817
	AU 692596	B2	19980611		
	EP 704167	A1	19960403	EP 1995-112939	19950817
	R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, NL, PT, SE				
	CN 1159145	A	19970910	CN 1995-194648	19950817
	JP 10504716	T2	19980512	JP 1995-507779	19950817
	FI 9700676	A	19970218	FI 1997-676	19970218
	NO 9700745	A	19970218	NO 1997-745	19970218
PRAI	GB 1994-16841		19940819		
	WO 1995-EP3277		19950817		

L10 ANSWER 25 OF 32 WPIDS COPYRIGHT 2000 DERWENT INFORMATION LTD

AB GB 2287867 A UPAB: 19951109

Use of xylanase (I) for assisting livestock to digest protein and/or amino

acids in feed is new.

(I) is pref. included in the feed in an amt. of 0.00001-10 (esp. 0.001-0.1)g/kg. (although admin. in water or in other feeds is also possible). Partic. the feed contains 20 (pref. 30) wt.% cereal, i.e. rye, triticale, barley, oats, sorghum, rice, maize or (best) wheat. Feeds may include a protein supplement, partic. fishmeal, meat meal or vegetable protein (e.g. soya or rapeseed meals); and also other enzymes comprising beta-glucanase, protease, alpha-amylase and/or pectin. (I) is derived from a fungus, partic. Trichoderma, Aspergillus, Humicola or Neocallimastix or a bacterium, esp. from T. longibrachiatum (See WO9206209).

USE - The method is partic. used for broiler chicken feed, but also turkey, duck, goose, pig, sheep or cow feed.

ADVANTAGE - corporation of (I) allows the . of expensive energy, protein and/or amino acid supplements in cereal-based feeds to be reduced without loss of nutritional value or the nutritional value of the feed to be increased. Partic. (I) increases the energy value of the cereal

component by 6 (pref. 10)% and the protein/amino acid value by 10 (pref. 15)%. It also improves digestion of fat and oil supplements. Dwg.0/0

AN 1995-338866 [44] WPIDS

DNC C1995-149288

TI Increasing digestibility of proteins and aminoacid(s) in **animal feed** - with xylanase, partic. added to cereal based feeds, improves nutritional value and allows redn. in amt. of supplements.

DC D13 D16

IN BEDFORD, M R; MORGAN, A J

PA (FINN-N) FINNFEEDS INT LTD

CYC 3

PI GB 2287867 A 19951004 (199544)\* 34p

AU 9516147 A 19951012 (199548)

CA 2145961 A 19951001 (199605)

AU 683720 B 19971120 (199804)

ADT GB 2287867 A GB 1995-6173 19950327; AU 9516147 A AU 1995-16147 19950329; CA 2145961 A CA 1995-2145961 19950330; AU 683720 B AU 1995-16147 19950329

FDT AU 683720 B Previous Publ. AU 9516147

PRAI GB 1994-6317 19940330

L10 ANSWER 26 OF 32 NTIS COPYRIGHT 2000 NTIS

AB Canola seed contains mucilage, a starch-like compound which is poorly digested by monogastric animals. The development of a low-mucilage (low-M)

strain of canola (derived from Candle) allowed the comparison of the effect of the canola meal (CM) from this strain with that of Candle, a regular cultivar, on the gains, feed efficiency and nutrient

digestibility

of growing pigs. The effect of the carbohydrate-digesting enzyme beta-glucanase was also tested to see if it would improve feed

utilization

and mucilage breakdown in the digestive system. Twelve barley:Wheat (2:1) diets were formulated to contain 0%, 6% and 12% each of CM with and without the addition of the enzyme source. Seventy-two crossbred barrows, mainly the progeny of Landrace-Yorkshire crossbred sows and Lacombe

boars,

were randomly allotted to test diets and fed according to a controlled feeding schedule through the liveweight range of 23-57 kg. Pig weights

and

feed intakes were measured weekly.

AN 1991(15):1484 NTIS Order Number: MIC-91-01749/XAD

TI Nutritional evaluation of low-mucilage canola meal: Technical/final report.

CS Agriculture Development Fund (Sask.). Regina (Canada).

NR MIC-91-01749/XAD

18 p. NTIS Prices: PC E07/MF E01

PD 1990

LA English CY Canada

OS GRA&I9115

L10 ANSWER 27 OF 32 USPATFULL

AB A method for the saccharification of a cellulosic material comprises the

steps of culturing a microorganism of *Acremonium cellulolyticus* in a medium containing carbon sources and nitrogen sources, collecting a cellulolytic enzyme from the resultant culture broth, and causing the cellulolytic enzyme to act on the cellulosic material.

AN 90:71684 USPATFULL

TI Method for production of cellulolytic enzymes and method for saccharification of cellulosic materials therewith

IN Yamanobe, Takashi, Ibaraki, Japan  
Mitsubishi, Yasuhiro, Ibaraki, Japan  
Takasaki, Yoshiyuki, Chiba, Japan  
PA Agency of Industrial Science & Technology, Tokyo, Japan (non-U.S.  
government)  
Ministry of International Trade & Industry, Tokyo, Japan (non-U.S.  
government)  
PI US 4956291 19900911  
AI US 1987-11043 19870205 (7)  
DCD 20021231  
RLI Continuation of Ser. No. US 1985-720416, filed on 5 Apr 1985, now  
patented, Pat. No. US 4742005  
PRAI JP 1985-581 19850107  
JP 1985-3490 19850111  
DT Utility  
EXNAM Primary Examiner: Tarcza, John E.  
LREP Oblon, Spivak, McClelland, Maier & Neustadt  
CLMN Number of Claims: 1  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 646  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 28 OF 32 USPATFULL

AB A high pressure conditioning system apparatus and control network. A  
direct fired steam generator supplies a mixture of super-heated steam  
and oxygen-deficient non-condensable gases to a pressurized conditioner  
constructed for heating, moisturizing, and conditioning matter  
including  
cereals, grains, beans, full fat **soybean**, barley, and seeds  
for a selected period of time. The high pressure conditioner is adapted  
for homogeneous interaction of the direct fired steam, non-condensable  
gases and the matter to be conditioned. A pressurized resting chamber  
is  
used statically steam the conditioned matter. A myriad of chemical  
changes are advantageously induced by the utilization of high  
pressures,  
controlled time, temperature, direct fired steam, moisture content, and  
the homogeneous interaction thereof. The desirable chemical changes  
accomplished by the high pressure conditioner include partial  
denaturization of protein, eliminating or reduction of harmful enzymes  
and microorganisms, and insolubilizing certain polysaccharides  
encapsulating the starch in the grains. Such desirable chemical changes  
lead to better nutritive value of the feed produced. A dryer may also  
be  
disposed in flow communication with the system for drying and cooling  
and rendering stable the conditioned matter for subsequent handling.

AN 90:14303 USPATFULL  
TI High pressure conditioning system  
IN White, Richard L., Dallas, TX, United States  
Diven, Richard H., Dallas, TX, United States  
Bleke, James H., Wolcottville, IN, United States  
PA VE Holding Corp., Arlington, TX, United States (U.S. corporation)  
PI US 4903414 19900227  
AI US 1988-224433 19880725 (7)  
DT Utility  
EXNAM Primary Examiner: Bennet, Henry A.  
LREP Johnson & Gibbs  
CLMN Number of Claims: 36  
ECL Exemplary Claim: 1  
DRWN 4 Drawing Figure(s); 3 Drawing Page(s)  
LN.CNT 939

L10 ANSWER 29 OF 32 USPATFULL

AB Breakfast cereals are sweetened by treating cereal grains or at least  
one cereal grain fraction such as bran, with enzymes comprising

glucoamylase and glucose isomerase to produce fructose while retaining cereal particle discreteness or integrity. Enzymatic treatment with alpha-amylase may be initiated prior to, during, or after cooking. The enzymatically treated, cooked cereal grains are formed into breakfast cereal shapes and the enzymes are inactivated to provide a shelf-stable cereal product. The cereal products exhibit a sweet, pleasing complex-honey-like taste and aroma. Producing fructose provides a greater level of sweetness for a given amount of starch conversion into low molecular weight reducing sugars such as mono- and di-saccharides. In achieving a given level of sweetness, more starch or high molecular weight dextrans may be retained for their matrix forming ability or for improved machineability of the enzymatically treated cereal grains into breakfast cereal shapes. The naturally sweetened cereal products of the present invention may be in shredded, flaked, ground, or extruded form.

AN 89:67285 USPATFULL  
TI Method for making cereal products naturally sweetened with fructose  
IN Maselli, John A., Winston-Salem, NC, United States  
Neidleman, Saul L., Oakland, CA, United States  
Antrim, Richard L., Sparta, NJ, United States  
Johnson, Richard A., Clinton, IA, United States  
PA Nabisco/Cetus Food Biotechnology Research Partnership, Emeryville, CA, United States (U.S. corporation)  
PI US 4857339 19890815  
AI US 1987-101561 19870928 (7)  
DT Utility  
EXNAM Primary Examiner: Czaja, Donald E.; Assistant Examiner: Paden, Carolyn  
LREP Kornutik, Richard; Halluin, Albert P.  
CLMN Number of Claims: 44  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1717  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 30 OF 32 USPATFULL

AB A method for the saccharification of a cellulosic material comprises the steps of culturing a microorganism of *Acremonium cellulolyticus* in a medium containing carbon sources and nitrogen sources, collecting a cellulolytic enzyme from the resultant culture broth, and causing the cellulolytic enzyme to act on the cellulosic material.

AN 88:27709 USPATFULL  
TI Method for production of cellulolytic enzymes and method for saccharification of cellulosic materials therewith  
IN Yamanobe, Takashi, Ibaraki, Japan  
Mitsuishi, Yasushi, Ibaraki, Japan  
Takasaki, Yoshiyuki, Matsudo, Japan  
PA Agency of Industrial Science & Technology, Ministry of International Trade & Industry, Tokyo, Japan (non-U.S. corporation)  
PI US 4742005 19880503  
AI US 1985-720416 19850405 (6)  
PRAI JP 1985-581 19850107  
JP 1985-3490 19850111  
DT Utility  
EXNAM Primary Examiner: Tarcza, John E.  
LREP Oblon, Fisher, Spivak, McClelland & Maier  
CLMN Number of Claims: 3  
ECL Exemplary Claim: 1  
DRWN 4 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 658  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 31 OF 32 USPATFULL

AB A process for producing a stevioside derivative, which comprises reacting stevioside with a .beta.-1,3- or .beta.-1,4-glycosyl sugar compound in aqueous solution or aqueous suspension in the presence of a microorganism or enzyme having .beta.-1,3- or .beta.1,4-glycosyl

transferring vity thereby to form .beta.-1 or  
.beta.-1,4-glycosyl  
stevioside.  
AN 86:29737 USPATFULL  
TI Process for production of .beta.-glycosyl stevioside derivatives  
IN Nishihashi, Hideji, Urawa, Japan  
Matsubayashi, Tadao, Chiba, Japan  
Katabami, Tadashi, Urawa, Japan  
Matsuda, Ken-ichi, Tokyo, Japan  
PA Dainippon Ink and Chemicals, Inc., Tokyo, Japan (non-U.S. corporation)  
Dic Fine Chemicals, Inc., Tokyo, Japan (non-U.S. corporation)  
PI US 4590160 19860520  
AI US 1983-469947 19830225 (6)  
PRAI JP 1982-31479 19820227  
DT Utility  
EXNAM Primary Examiner: Wiseman, Thomas G.; Assistant Examiner: Weimar,  
Elizabeth C.  
LREP Sherman & Shalloway  
CLMN Number of Claims: 20  
ECL Exemplary Claim: 1  
DRWN 8 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 1623  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 32 OF 32 USPATFULL  
AB A chitin-protein complex is prepared from chitin-containing biological  
waste material such as crustacean shells. The complex is different from  
both chitin and chitosan, and has useful nematostatic and nematocidal  
activity for agricultural and horticultural applications by admixing  
nematocidally effective amounts with a plant growth medium. The complex  
also provides a source of nitrogen in slow-release form, making it  
particularly suitable for combination with fertilizers, soil  
conditioners, etc.  
AN 85:48965 USPATFULL  
TI Nematocidally active chitin-protein complex  
IN McCandliss, Russell J., Germantown, MD, United States  
Eastwood, Barbara J., Round Hill, VA, United States  
Milch, Robert A., Baltimore, MD, United States  
PA IGI Biotechnology, Inc., Columbia, MD, United States (U.S. corporation)  
PI US 4536207 19850820  
AI US 1983-517312 19830726 (6)  
DT Utility  
EXNAM Primary Examiner: Schain, Howard E.  
LREP Haight & Associates  
CLMN Number of Claims: 20  
ECL Exemplary Claim: 1  
DRWN 11 Drawing Figure(s); 13 Drawing Page(s)  
LN.CNT 919  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.